

## Message Text

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ORIGIN NSF-02

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TO AMEMBASSY NEW DELHI IMMEDIATE

UNCLAS STATE 185848

PASS TO VREBALOBICH, SCICOUNS, FROM EDWARDS, NSF

E.O. 11652: N/A

TAGS: TPHY OSCI TGEN IN

SUBJECT: SOLAR AND WIND ENERGY MEETING - PARTICIPANT  
-- BIOGRAPHIC DATA AND AGENDA

REF: A) NEW DELHI 10814B NEW DELHI 10397

1. NSF CONSIDERS INDIAN LIST OF TOPICS APPROPRIATE FOR DISCUSSION AT SUBJECT MEETING. U.S. TEAM MEMBERS WERE SELECTED FOR THEIR EXPERTISE IN THESE AREAS. NSF SUGGESTS TOPICS BE GROUPED UNDER FOLLOWING HEADINGS: WIND ENERGY; SOLAR HEATING, COOLING, AND POWER (INCLUDING DRYING OF CROPS); AND PHOTOVOLTAICS.

2. NSF PERCEIVES MEETING IN WHICH PROJECTS WILL BE DEFINED AND PROPOSALS DEVELOPED IN INTEREST AREAS IDENTIFIED BY S&T SUBCOMMISSION. U.S. TEAM EXPECTS MEETING TO CONCENTRATE ON PROPOSAL DEVELOPMENT NOT REPEAT NOT A SEMINAR.

3. NSF HAS MADE INVITATIONAL TRAVEL AWARDS TO EIGHT U.S. SCIENTISTS. THEIR ETA'S NEW DELHI, TRAVEL AUTHORIZATION UNCLASSIFIED

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NUMBERS, AMOUNT OF AUTHORIZED CASH ADVANCE FOR TRANSPORTATION, PER DIEM, AND MISCELLANEOUS EXPENSES, AND BIODATA ARE LISTED BELOW:

-- WIND ENERGY

DR. WILLIAM L. HUGHES  
ETA AUGUST 1, PA 2  
TA NO. 42335, EIGHT DAYS, RS. 5,056  
B. DECEMBER 2, 1926; RAPID CITY, SOUTH DAKOTA  
MARRIED; 2 CHILDREN

PROFESSOR AND HEAD  
SCHOOL OF ELECTRICAL ENGINEERING  
OKLAHOMA STATE UNIVERSITY  
DIRECTOR, ENGINEERING ENERGY LABORATORY 1960 -

B.S., SOUTH DAKOTA SCHOOL OF MINES  
M.S., PH.D., (ELEC. ENG.) IOWA STATE UNIVERSITY 1952

PREVIOUS POSITIONS  
-- PROFESSOR, ASSOCIATE PROFESSOR  
-- DEPARTMENT OF ELECTRICAL ENGINEERING  
-- IOWA STATE UNIVERSITY 1956-1960

FIELDS OF INTEREST: UNCONVENTIONAL ENERGY SYSTEMS  
-- ELECTROMAGNETIC RADIATION  
-- COLOR TELEVISION SYSTEMS

MR. HANS MEYER  
ETA AUGUST 1, PA 2  
TA NO. 42332, EIGHT DAYS, RS. 5,056  
B. FEBRUARY 6, 1947; MILWAUKEE, WISCONSIN

DIRECTOR OF RESEARCH  
WINDWORKS 1971 -  
B.S., AERONAUTICAL ENGINEERING UNIVERSITY OF MICHIGAN 1970

PREVIOUS POSITIONS  
-- SPECIAL ASSISTANT FOR RESEARCH  
-- BUCKMINSTER FULLER  
UNCLASSIFIED

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-- BAR HARBOR, MAINE  
-- SAN FRANCISCO, CALIFORNIA 1971 -

FIELDS OF INTEREST: AERODYNAMICS  
-- STRUCTURAL ENGINEERING  
-- ELECTRICAL ENGINEERING OF SUBSISTENCE  
-- COMPONENTS OF WIND MACHINES

-- SOLAR HEATING, COOLING AND POWER

DR. A. B. MEINEL (NOTE: MRS. MEINEL WILL NOT ACCOMPANY HIM)  
ETA JULY 31, PA 1  
TA NO. 42329, EIGHT DAYS, RS. 5,446

B. NOVEMBER 25, 1922; PASADENA, CALIFORNIA  
MARRIED; 7 CHILDREN

DIRECTOR, CHAIRMAN AND PROFESSOR  
OPTICAL SCIENCES CENTER  
UNIVERSITY OF ARIZONA 1966 -

A.B., PH.D., (ASTRONOMY) UNIVERSITY OF CALIFORNIA 1949

PREVIOUS POSITIONS:  
DIRECTOR AND PROFESSOR  
- STEWARD OBSERVATORY  
-- UNIVERSITY OF ARIZONA 1961 - 1966  
  
-- DIRECTOR  
-- KITT PEAK NATIONAL OBSERVATORY 1958 - 1961

FIELDS OF INTEREST: ASTROPHYSICS INSTRUMENTATION  
-- SPECTROSCOPY UTILIZATION OF SOLAR  
-- OPTICAL DESIGN ENERGY

MR. LANE BRANSON  
ETA JULY 31, PA 1; STOPPING ONE NIGHT ONLY AT CLARIDGES  
-- HOTEL, THEN AT ASHOKA WITH TEAM.  
TA NO. 42330, THIRTEEN DAYS, RS. 7,841

B. OCTOBER 17, 1935; CASTLE DALE, UTAH  
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MARRIED; 6 CHILDREN

DEPARTMENT OF PHYSICS  
UNIVERSITY OF UTAH

B.S., MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
M.S., (PHYSICS) UNIVERSITY OF CALIFORNIA 1967

PREVIOUS POSITIONS:  
-- SPECIAL CONSULTANT IN EDUCATION  
-- USAID/NEW DELHI 1969-1972  
  
-- ASSISTANT PROFESSOR OF PHYSICS  
-- MONTANA TECH 1967-1968

FIELDS OF INTEREST; SOLAR ENERGY IN DEVELOPING COUNTRIES  
-- SCIENCE EDUCATION

MR. DAN SCHNEIDERMAN AND MRS. SCHNEIDERMAN  
ETA JULY 31, PA 1  
TA NO. 42331, TEN DAYS, RS. 5,854

B. FEBRUARY 23, 1922; BALTIMORE, MD

MARRIED; 2 CHILDREN

MANAGER

JET PROPULSION LABORATORY

CIVIL SYSTEMS OFFICE

CALIFORNIA INSTITUTE OF TECHNOLOGY

B.S., (ELECTRICAL ENG.) UNIVERSITY OF CALIFORNIA 1949

PREVIOUS POSITIONS:

-- PROJECT MANAGER

-- MARINER MARS 1971

-- JET PROPULSION LABORATORY 1969-1971

-- PROJECT MANAGER, VENUS

-- JET PROPULSION LABORATORY 1967-1971

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-- PROJECT MANAGER MARINER MARS

-- JET PROPULSION LABORATORY 1964-1967

FIELDS OF INTEREST: SYSTEMS IMPLICATIONS OF ENERGY

-- TRANSPORTATION AND ENVIRONMENT

DR. ERICH A. FARBER

ETA AUGUST 1, PA 2

TA NO. 42337, EIGHT DAYS, RS. 5,056

B. SEPTEMBER 7, 1921; VIENNA, AUSTRIA

MARRIED; 2 CHILDREN

PROFESSOR, MECHANICAL ENGINEERING

DIRECTOR, SOLAR ENERGY AND ENERGY CONVERSION LABORATORY

UNIVERSITY OF FLORIDA 1954 -

B.S., M.S., UNIVERSITY OF MISSOURI

PH.D., (MECH. ENG.) UNIVERSITY OF IOWA 1949

PREVIOUS POSITIONS:

-- ASSISTANT AND ASSOCIATE PROFESSOR OF

-- MECHANICAL ENGINEERING

-- UNIVERSITY OF WISCONSIN 1949-1954

FIELDS OF INTEREST: HEAT TRANSFER FLUID FLOW

-- SOLAR ENERGY ENERGY CONVERSION

-- THERMODYNAMICS

-- PHOTOVOLTAICS

DR. MARTIN WOLF  
ETA AUGUST 1, PA 2  
TA NO. 42334, EIGHT DAYS, RS. 5,056

B. AUGUST 2, 1922; WUPPERTAL-BARMEN, GERMANY  
MARRIED; 4 CHILDREN

PROFESSOR  
ELECTRICAL ENGINEERING AND SCIENCE  
UNCLASSIFIED

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UNIVERSITY OF PENNSYLVANIA 1974 -

B.S., M.S., (PHYSICS) GEORG AUGUST UNIVERSITY  
--            GOETTINGEN, GERMANY 1952  
--            ILLINOIS INSTITUTE OF TECHNOLOGY 1952

PREVIOUS POSITIONS:

-- RESEARCH ASSOCIATE  
-- PROFESSOR, DEPARTMENT OF  
-- ELECTRICAL ENGINEERING AND SCIENCE AND  
-- MECHANICAL ENGINEERING AND APPLIED MECHANICS  
-- UNIVERSITY OF PENNSYLVANIA 1972-1974  
  
-- SENIOR RESEARCH INVESTIGATOR  
-- INSTITUTE FOR DIRECT ENERGY CONVERSION  
-- UNIVERSITY OF PENNSYLVANIA 1970-1972

FIELDS OF INTEREST: SOLAR ENERGY UTILIZATION, PARTICULARLY  
--            BY PHOTOVOLTAIC CONVERSION

DR. JOHN D. MEAKIN  
ETA AUGUST 1, PA 2  
TA NO. 42328, EIGHT DAYS, RS. 5,056

B. FEBRUARY 11, 1934; NOTTINGHAM, ENGLAND  
MARRIED; 5 CHILDREN

ASSOCIATE DIRECTOR, INSTITUTE OF  
ENERGY CONVERSION AND PROFESSOR OF  
MECHANICAL AND AEROSPACE ENGINEERING  
UNIVERSITY OF DELAWARE 1974 -

B.S., PH.D., (METALLURGY) LEEDS UNIVERSITY 1957

PREVIOUS POSITIONS:

-- LABORATORY MANAGER 1970-1974  
PRINCIPAL SCIENTIST 1966-1970  
-- FRANKLIN INSTITUTE

FIELDS OF INTEREST: STRUCTURE AND PROPERTY OF MATERIALS  
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-- BIOMETRICAL MICROSCOPY  
-- FAILURE ANALYSIS  
-- SCANNING AND TRANSMISSION ELECTRON  
-- MICROSCOPY

-- NSF AND ERDA STAFF

DR. GERALD A. EDWARDS, NSF  
ETA AUGUST 1, PA 2  
TA NO. 42642, EIGHT DAYS, AND SPECIAL EXPENSES, RS. 13,261

B. NOVEMBER 22, 1921; HENDERSON, NORTH CAROLINA  
MARRIED; 3 CHILDREN

PROGRAM MANAGER  
AFRICA AND ASIA SECTION  
DIVISION OF INTERNATIONAL PROGRAMS  
NATIONAL SCIENCE FOUNDATION 1974 -

B.S., NORTH CAROLINA COLLEGE 1941  
PH.D., (CHEM.) SUNY AT BUFFALO 1951

PREVIOUS POSITIONS:

-- PROGRAM MANAGER  
-- HIGHER EDUCATION IN SCIENCE  
-- INSTRUCTIONAL IMPROVEMENT IMPLEMENTATION SECTION  
-- NATIONAL SCIENCE FOUNDATION 1973-1974

-- ASSOCIATE PROGRAM DIRECTOR  
-- UNDERGRADUATE EDUCATION IN SCIENCE  
-- NATIONAL SCIENCE FOUNDATION 1970-1973

-- PROFESSOR AND CHAIRMAN  
-- DEPARTMENT OF CHEMISTRY  
-- N.C. AGRICULTURAL AND TECHNICAL STATE UNIV. 1956-1970

FIELDS OF INTEREST: PHYSICAL CHEMISTRY

-- AMINO ACID TRANSPORT AND UTILIZATION  
-- POLYMER CHEMISTRY  
-- SCIENCE EDUCATION

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DR. TAPAN MUKHERJEE, NSF  
ETA AUGUST 1, PA 2  
TA NO. 48896, EIGHT DAYS, RS. 4,391

B. JANUARY 5, 1929; GORAKPUR, INDIA  
MARRIED; 2 CHILDREN

PROGRAM DIRECTOR

ADVANCED ENERGY AND RESOURCES

- RESEARCH AND TECHNOLOGY

DIRECTORATE FOR RESEARCH APPLICATIONS

NATIONAL SCIENCE FOUNDATION 1974 -

B.S., L.S. COLLEGE, INDIA 1948

M.S., SCIENCE COLLEGE, INDIA 1950

PH.D., (CHEM.) WAYNE STATE UNIVERSITY 1956

D.SC. PATNA UNIVERSITY, INDIA 1975

PREVIOUS POSITIONS:

-- RESEARCH CHEMIST

-- AIR FORCE CAMBRIDGE RESEARCH LABORATORIES 1962-1974

-- STAFF SCIENTIST

-- DEVICE DEVELOPMENT CORPORATION 1962

FIELDS OF INTEREST: PHOTOVOLTAIC CONVERSION

-- BIOCONVERSION TO FUEL

-- NONRENEWABLE RESOURCES PROGRAMS

DR. NORMAN L. BROWN

ETA AUGUST 1, PA 2

TA NO. 42325, EIGHT DAYS, RS. 5,056

B. DECEMBER 22, 1923; ATLANTIC CITY, NEW JERSEY

COUNTRY PROGRAM SPECIALIST

OFFICE OF INTERNATIONAL AFFAIRS

ERDA 1975 -

B.S., (CHEM.) MASSACHUSETTES INSTITUTE OF TECHNOLOGY 1947

PH.D., (PHYSICAL CHEM.) BROWN UNIVERSITY 1952

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PREVIOUS POSITIONS:

-- PROFESSIONAL ASSOCIATE

-- BOARD OF SCIENCE AND TECHNOLOGY FOR

-- INTERNATIONAL DEVELOPMENT

-- OFFICE OF THE FOREIGN SECRETARY

-- NAS 1970-1975

-- PROGRAM LEADER

-- BUREAU OF COMMERCIAL FISHERIES

-- U.S. DEPARTMENT OF INTERIOR 1963-1970

FIELDS OF INTEREST: SOLAR ENERGY WIND ENERGY

-- INTERMEDIATE ENERGY TECHNOLOGY

-- ENERGY TECHNOLOGY FOR LESS DEVELOPED

-- COUNTRIES

4. NSF AUTHORIZES DISBURSEMENT TO TRAVELLERS AS SPECIFIED IN PARAGRAPH 3, ABOVE, TO BE CHARGED TO NSF APPROPRIATION 496/70102 UNDER RESPECTIVE TRAVEL AUTHORIZATIONS.

5. SITE VISITS. NSF SUGGESTS TENTATIVE PLANS FOR SITE VISITS BE MADE. THESE CAN BE FINALIZED AFTER TRAVELLERS REACH DELHI. HUGHES, WOLF, SCHNEIDERMAN, AND BRANSON PLAN TO MAKE SITE VISITS; OTHERS UNCERTAIN.

6. G. NICHOLS, JR., JPL, WAS INVITED TO PARTICIPATE BUT DECLINED. HE SUGGESTED DAN SCHNEIDERMAN.

7. DR. EDWARDS, NSF, REQUESTS EMBASSY ARRANGE FOLLOWING APPOINTMENTS: NEW DELHI, AUGUST 3, 1976

-- MR. ANIL BORDIA, MINISTRY OF EDUCATION

-- MR. K. N. JOHRY, CSIR

-- HYDERABAD, AUGUST 5, 1976, MORNING FLIGHT AND RETURN

-- TO DELHI SAME DAY (ACCOMPANIED BY DR. T.

-- MUKHERJEE AND MR. D. S. GUJRAL)

-- DR. HARI NARAIN, DIRECTOR AND DR. R. UMAMAHESWARA RAO,

-- NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

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-- DR. V. S. ARUNACHALAM, DIRECTOR

-- DEFENSE METALLURGICAL RESEARCH LABORATORY

; UNCLASSIFIED

8. AGENDA, REFTEL A. NSF SUGGESTS FOLLOWING AGENDA FOR MAXIMUM UTILIZATION OF EXPERTS::

2 AUGUST 1976

0900 HOURS REGISTRATION AND INAUGURATION

SESSION I

1030-1330 STATUS REVIEW AND PANEL DISCUSSION, ONE

-- U.S. AND ONE INDIAN SPEAKER IN EACH OF

-- THREE INTEREST AREAS: SOLAR HEATING, COOL-

-- ING, AND POWER; PHOTOVOLTAICS; AND WIND

-- ENERGY

SESSION II

1430-1700 CONTINUATION OF DISCUSSION AND SEPARATION

-- INTO THREE WORKING GROUPS BY INTEREST

-- AREAS FOR PROJECT DEFINITION. EACH PANEL

-- CONSIDERS SUITABLE PROJECTS FOR JOINT INDO-



-- U.S. R AND D PROGRAM IN ACCORDANCE WITH  
-- TOPICS IN REFTTEL A AGENDA.

3 AUGUST 1976

SESSION III

0900-1330 PROJECT DEFINITION (CONTINUED)

SESSION IV

1430-1700 PROPOSAL DEVELOPMENT

4 AUGUST 1976

SESSION V  
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0900-1330 PROPOSAL DEVELOPMENT (CONTINUED)

SESSION VI

1430-1700 PLENARY DISCUSSION OF PROJECT AREAS AND  
-- PROPOSALS: RECOMMENDATIONS FOR RANK ORDER-  
-- ING OF AGREED PROJECTS AND/OR PROPOSALS;  
-- DRAFTING OF AGREED MINUTES BY EXPERTS AND/  
-- OR CONVENORS.

9. BRIEF MEETING OF U.S. AND INDIAN CONFERENCE ORGANIZERS  
SUGGESTED FOR SUNDAY AUGUST 1, TO ADOPT AGENDA. NSF  
CONSIDERS DISCUSSIONS OF TECHNICAL DETAILS BY SMALL GROUPS  
OF EXPERTS MOST EFFICIENT.

10. NSF SUGGESTS SCICOUNS CONSIDER INVITING KEY INDIAN  
SCIENTIFIC CONTACTS TO DINNER-RECEPTION FOR PARTICIPANTS.

11. SCICOUNS PLEASE ARRANGE ENERGY SITE VISITS FOR  
DR. BROWN, ERDA, ACCOMPANIED BY MR. D.S. GUJRAL FOR EIGHT  
DAYS FOLLOWING CONFERENCE.

12. TRAVELLERS WOULD APPRECIATE EMBASSY ARRANGING AIRPORT  
MEETING AND HOTEL RESERVATIONS. KISSINGER

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## Message Attributes

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**TAGS:** TPHY, OSCI, TGEN, OTRA, IN, US  
**To:** NEW DELHI  
**Type:** TE  
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